



Safety Precautions

WARNING -This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Please read these safety precautions carefully before using the product.

 **Warning** If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

 **Caution** If you ignore the caution message, you may be slightly injured or the product may be damaged.

Precautions in installing the Product

Warning

- **Keep away from heat sources like electrical heaters.**
 - Electrical shock, fire, malfunction or deformation may occur.
- **Keep the packing anti-moisture material or vinyl packing out of the reach of children.**
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- **Do not put heavy objects on the product or sit upon it.**
 - If the product collapses or is dropped, you may be injured. Children must pay particular attention.
- **Do not leave the power or signal cable unattended on the pathway.**
 - The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.
- **Install the product in a neat and dry place.**
 - Dust or moisture can cause electrical shock, fire or product damage.
- **If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.**
 - If you continue to use without taking proper measures, electrical shock or fire can occur.
- **If you dropped the product or the case is broken, turn off the product and unplug the power cord.**
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- **Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention.**
 - Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service center.

Caution

- **Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place (more than 10cm from the wall)**
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.
- **Do not block the ventilation hole of the product by a tablecloth or curtain.**
 - The product can be deformed or fire can break out due to overheating inside the product.
- **Install the product on a flat and stable place that has no risk of dropping the product.**
 - If the product is dropped, you may be injured or the product may be broken.
- **Install the product where no EMI occurs.**
- **Keep the product away from direct sunlight.**
 - The product can be damaged.

Safety Precautions

Electrical Power Related Precautions

Warning

- **Make sure to connect the power cable to the grounded current.**
 - You may be electrocuted or injured.
- **Use the rated voltage only.**
 - The product can be damaged, or you may be electrocuted.
- **During a thunder or lightning storm, unplug the power cable or signal cable.**
 - You may be electrocuted or a fire can break out.
- **Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power bar with a grounding terminal designed for exclusive use with the computer.**
 - A fire can break out due to overheating.
- **Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.**
 - You may be electrocuted due to excess moisture.
- **If you don't intend to use the product for a long time, unplug the power cable from the product.**
 - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- **Fix the power cable completely.**
 - If the power cable is not fixed completely, a fire can break out.
- **Hold the plug when pulling out the power cable. Do not bend the power cord with excessive force or put heavy objects on the power cord.**
 - The power line can be damaged, which may cause electric shock or fire.
- **Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.**
 - You may be electrocuted.
- **The power supply cord is used as the main disconnection device. Ensure that the socket-outlet is easily accessible after installation.**

Caution

- **Do not unplug the power cord while the product is in use.**
 - Electrical shock can damage the product.

Precautions in Moving the Product

Warning

- **Make sure to turn off the product.**
 - You may be electrocuted or the product can be damaged.
- **Make sure to remove all cables before moving the product.**
 - You may be electrocuted or the product can be damaged.

Safety Precautions

Caution

- **Do not shock the product when moving it.**
 - You may be electrocuted or the product can be damaged.
 - **Do not dispose the product-packing box. Use it when you move.**
 - **Make the panel face forward and hold it with both hands to move.**
 - If you drop the product, the damaged product can cause electric shock or fire. Contact with the service center for repair.
-

Precautions in Using the Product

Warning

- **Do not disassemble, repair or modify the product at your own discretion.**
 - Fire or electric shock accident can occur.
 - Contact the service center for check, calibration or repair.
- **Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur.**
- **Keep the product away from water.**
 - Fire or electric shock accident can occur.

Caution

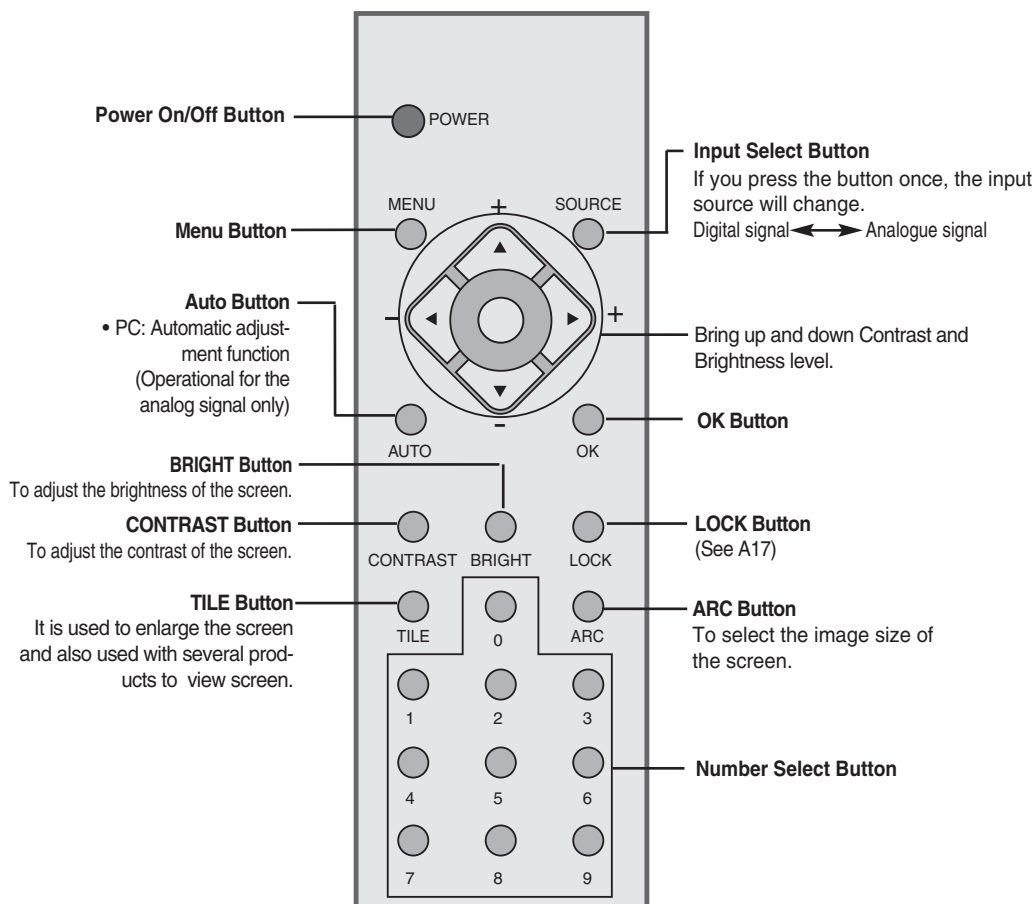
- **Do not put or store inflammable substances near the product.**
 - There is a danger of explosion or fire due to careless handling of the inflammable substances.
 - **When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.**
 - The water can sink into the product, which can cause electric shock or serious malfunction.
 - **Take a rest from time to time to protect your vision.**
 - **Keep the product clean at all times.**
 - **Take a comfortable and natural position when working with a product to relax the muscles.**
 - **Take a regular break when working with a product for a long time.**
 - **Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.**
 - **Keep proper distance from the product.**
 - Your vision may be impaired if you look at the product too closely.
 - **Set the appropriate resolution and clock by referring to the User's Guide.**
 - Your vision can be impaired.
 - **Use authorized detergent only when cleaning the product. (Do not use benzene, thinner or alcohol.)**
 - Product can be deformed.
-

On Disposal

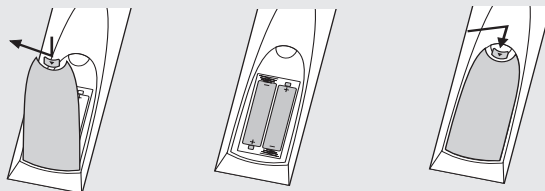
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
Disposal of this product must be carried out in accordance to the regulations of your local authority.

Using the Remote Control

● Name of the Remote Control Buttons



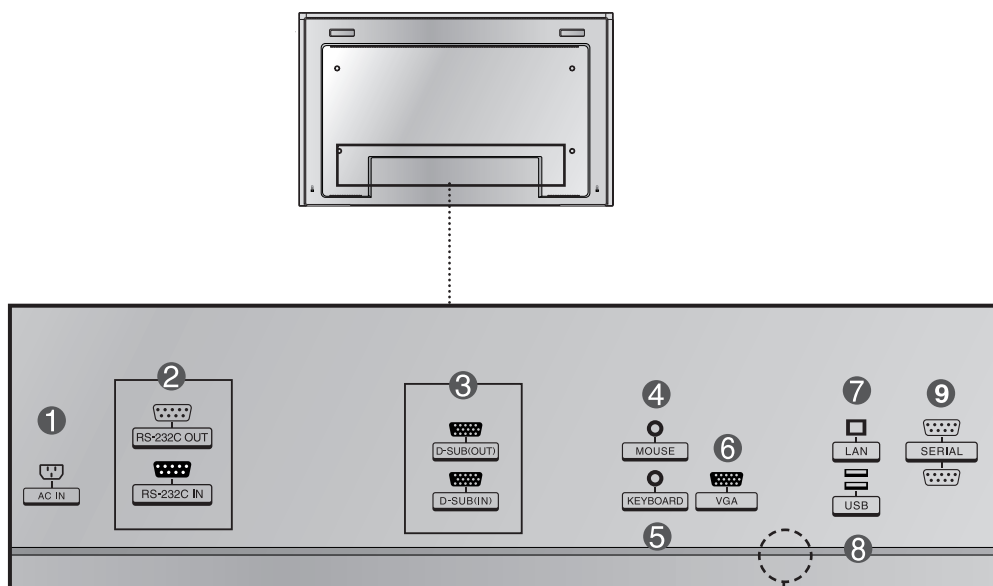
Inserting batteries into remote Control



1. Take out the battery cap.
 2. Insert batteries with correct polarity (+/-).
 3. Close the battery cap.
- Dispose of used batteries in the recycle bin to prevent environmental pollution.

Name and Function of the Parts

Rear View



1 Power Connector : Connect the power cord

2 RS-232C Serial Ports

3 Analogue Signal Input/Output

4 Mouse Port

5 Keyboard Port

6 VGA Port

7 LAN Port

8 USB Port

9 Serial Port



Note

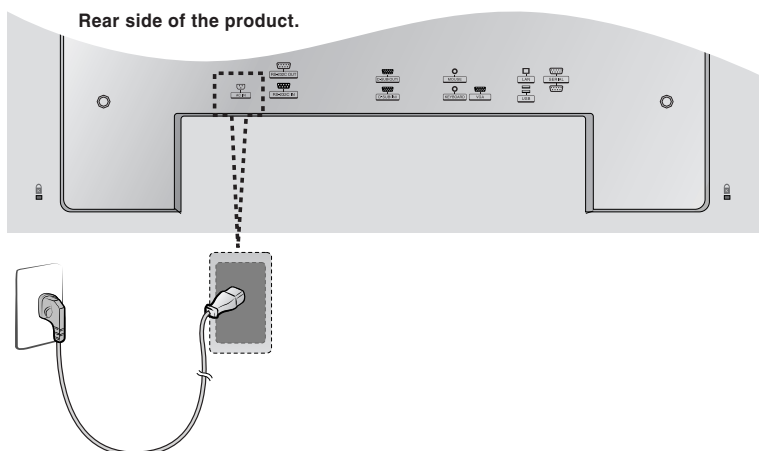
- It's possible to output AUDIO OUT. But it's not ensure the guarantee because this product dosen't include this specification.

When Connecting to your Product

■ ■ ■ Connecting your Product

1.

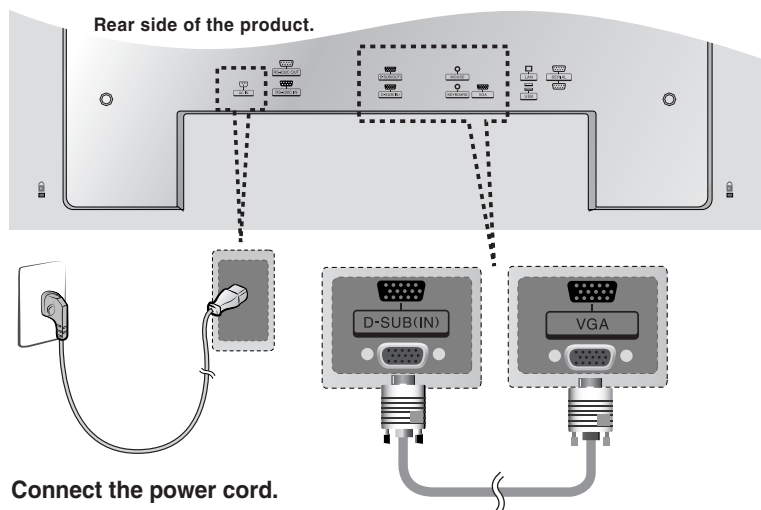
This product contains DVI-Signal settings.



Connect the power cord.

When using with the D-Sub signal.

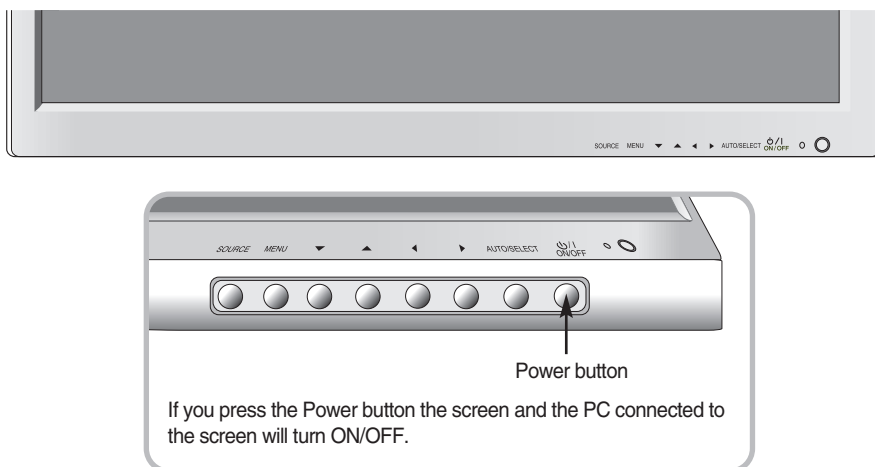
First of all, see if the computer, product and the peripherals are turned off.
Then, connect the signal input cable.



Connect the power cord.

When Connecting to your Product

- 2.** Turn on power by pressing the power button on the product.



- 3.** Select an input signal.
Press the SOURCE button on the remote control to select the input signal.
Or, press the SOURCE button at the front side of the product.

DVI (Digital signal) ↔ RGB (Analogue signal)

If the PC is installed internally you can only display the screen connected to the PC when selecting the DVI source.

- 4.** Install with the graphic driver.
Make reference to the graphic driver installation guide book.

When Connecting to your Product

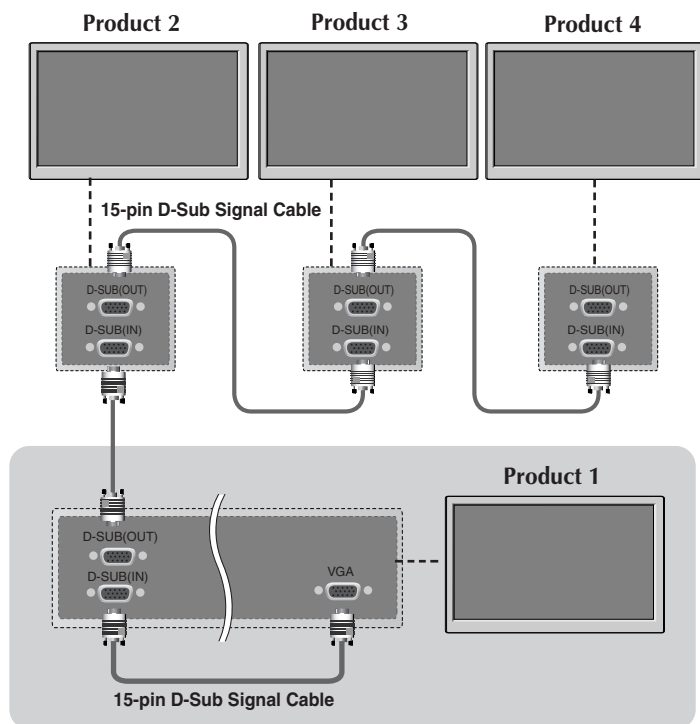
■ ■ ■ Watching RGB Outputs

Use this function when displaying ANALOG RGB inputs of a PC to the other product.

- **To use different products connected to each other**

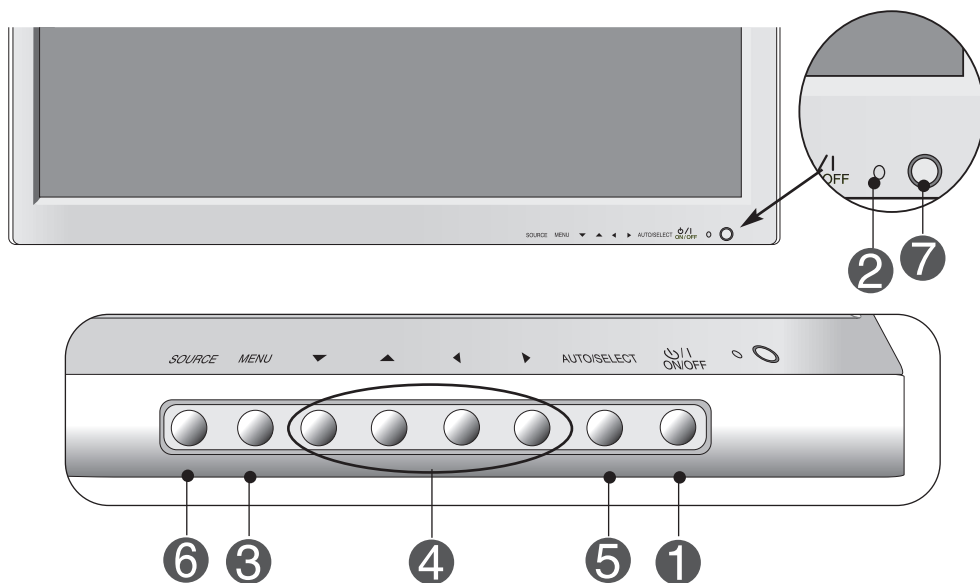
Connect one end of the signal input cable(15-pin D-Sub Signal Cable) to the **RGB OUT** connector of **product 1** and connect the other end to the RGB INPUT connector of other products.

- Change SOURCE to **Analogue signal** when desiring to see input signal of the **Analogue signal**.

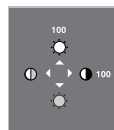


Selecting and Adjusting the Screen

● Name of the Buttons in the Screen Adjustment Unit



- 1 Power Button**
 - Press this button to turn on the power. Press this button again to turn it off. (If you press the Power button the screen and the PC connected to the screen will turn ON/OFF.)
- 2 Power Indicator**
 - This Indicator lights up green when the display operates normally (on mode). If the display is in sleep (Energy Saving) mode, this indicator color changes to amber. (When turning the power OFF the power of the screen and the PC will take several seconds to turn off completely.)
- 3 MENU Button**
 - Use this button to show/hide the OSD (On Screen Display) menu screen.
- 4 OSD Select / Adjust Button**
 - Use this button to select an icon or adjust the setting in the OSD screen.
- 5 Brightness/Contrast Button**
 - Use this button to directly control brightness and contrast of the PC signal (Digital signal, Analog signal).



Selecting and Adjusting the Screen

● Name of the Buttons in the Screen Adjustment Unit

5 AUTO/SELECT Button

[For Analog signal]

If the resolution is 1360X768

Auto in progress

If the resolution is not 1360X768

Auto in progress
For optimal display change
Change resolution to 1360 X 768

[For Digital signal]

- The current signal and mode information will be displayed.

6 SOURCE Button

- Select the input signal

DVI (Digital signal) ↔ RGB(Analogue signal)




Digital signal and Analogue signal can't be outputted at the same time so when transferring the source connect the connector and then turn on the power.

7 IR Receiver

- The unit that receives the signal from the remote control.

Selecting and Adjusting the Screen

OSD Menu

Icon	Function Description
 PICTURE	Adjusts screen brightness, contrast and color that you prefer.
 SPECIAL	Adjusts the screen status according to the circumstances.
 SCREEN	Adjusts the screen video.



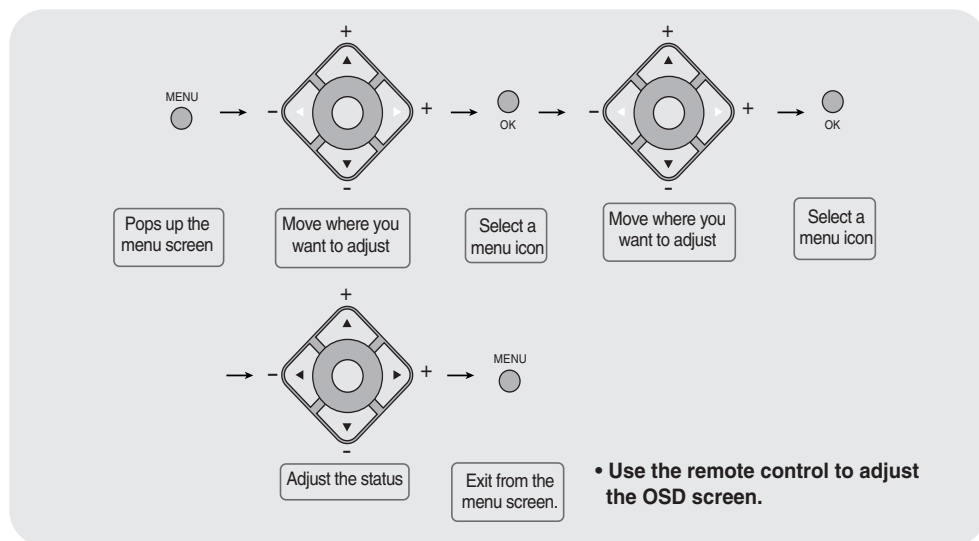
Note

OSD(On Screen Display)

The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

Selecting and Adjusting the Screen

● How to adjust the OSD (On Screen Display) screen



- 1 Press the **MENU** Button, then the main menu of the OSD appears.
- 2 To access a control, use the ▼ ▲ Buttons.
- 3 When the icon you want becomes highlighted, press the **OK** Button.
- 4 Use the ▼ ▲ ◀ ▶ Buttons to adjust the item to the desired level.
- 5 Exit the OSD by pressing the **MENU** Button.

● How to adjust the screen automatically

You need to adjust the screen display when connecting the product to a new computer or changing the mode. Refer to the following section to set an optimal product screen.

Press the **AUTO/SELECT** button (**AUTO button** in a remote Control) in the PC analog signal. Then, an optimal screen status will be selected that fits into the current mode.

If adjustment is not satisfactory, you need to adjust screen position, clock and phase in the OSD menu.

If the resolution is 1360X768

Auto in progress

If the resolution is not 1360X768

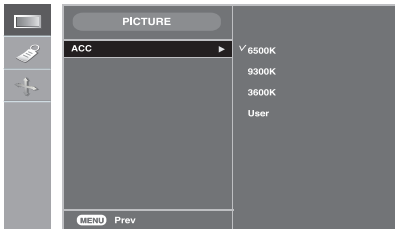
Auto in progress
For optimal display change
Change resolution to 1360 X 768

Selecting and Adjusting the screen



Adjusting Screen Colour

ACC



- **6500K/9300K/3600K**

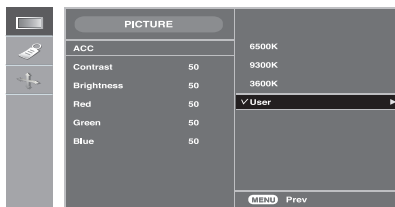
Selecting a factory setting color set.

6500K: Slightly reddish white.

9300K: Slightly bluish white.

3600K: Slightly yellowish white.

- **User** : Select this option to use the user-defined settings.



Contrast

To adjust the contrast of the screen.

Brightness

To adjust the brightness of the screen.

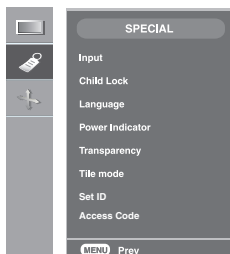
Red / Green / Blue

Set your own color levels.

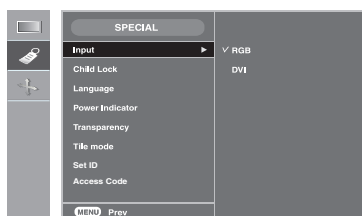
Selecting and Adjusting the screen



Selecting the options



Input



If you press the button once, the following Input Signal Window will appear. Select the signal type you want using the ▼▲ button.

Child Lock

Use the ▼▲ buttons to select **On** or **Off**. The Set can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing.

In order to lock the OSD screen adjustment, set the **Child Lock** tab to the 'On' position. In order to unlock it, do the following :

* Push the **MENU** button on the remote control and set **Child Lock** to the 'Off' position.

Language

To choose the language in which the control names are displayed.

Power Indicator

Use this function to set the power indicator on the front side of the product to **On** or **Off**. If you set **Off**, it will go off. If you set **On** at any time, the power indicator will automatically be turned on.

Transparency

To adjust the transparency of the OSD menu screen.

Selecting and Adjusting the screen

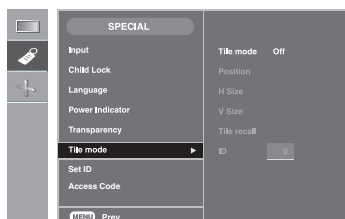


Selecting the options

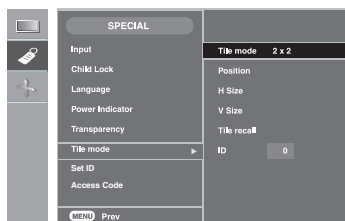
• To use this function

- You can connect the product with several other products and use the Tile mode function.

Tile mode

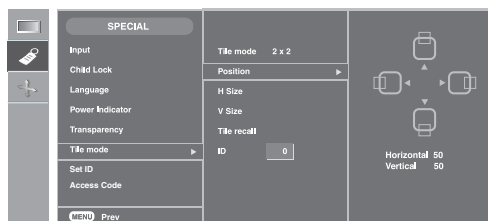


It is used to enlarge the screen and also used with several products to view screen,



Tile mode and choose Tile alignment and set the ID of the current product to set location.

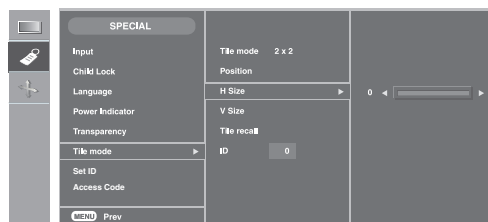
- * Only after pressing the **OK** button the adjustments made to the settings will be saved.



• Position

The location of the screen can be adjusted at the Position menu and can be set by adjusting the size of the bezel.

- * If you exit the menu after making the changes to the settings the adjustments will be saved.



• H Size

Adjust the horizontal size of the screen taking into account the size of the bezel.

• V Size

Adjust the vertical size of the screen taking into account the size of the bezel.

• Tile recall

Function to initialize and release Tile. All Tile setting are released when selecting. Tile recall and the screen returns to Full screen.

• ID

Select the location of the Tile by setting an ID.

Selecting and Adjusting the screen



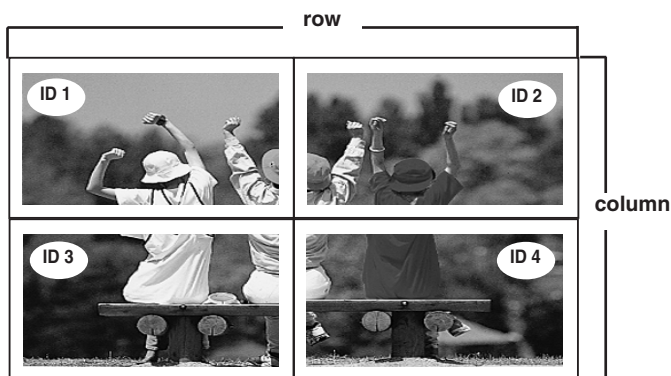
Selecting the options

• Tile mode

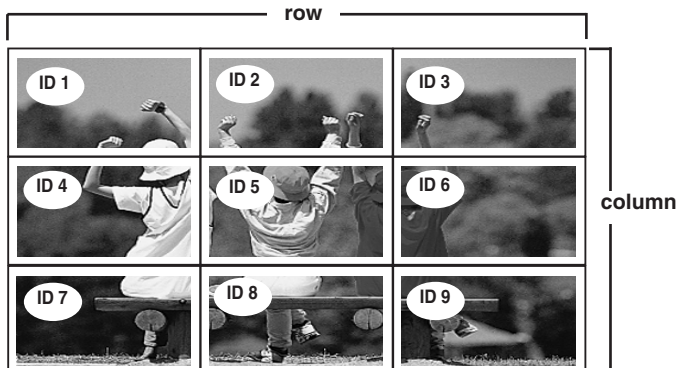
- Tile mode : row x column ($r = 1, 2, 3, 4$ $c = 1, 2, 3, 4$)
- 4 x 4 available.
- Configuration of an integration screen is also available as well as configuration of one by one Display.



- Tile mode (product 1 ~ 4) : $r(2) \times c(2)$



- Tile mode (product 1 ~ 9) : $r(3) \times c(3)$

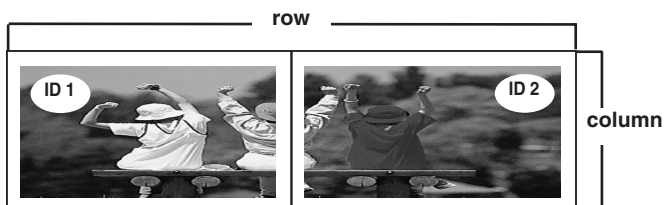


Selecting and Adjusting the screen

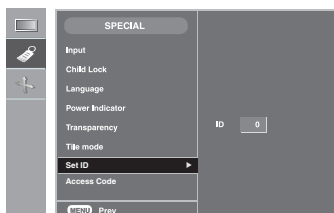


Selecting the options

- Tile mode (product 1 ~ 2) : r(2) x c(1)

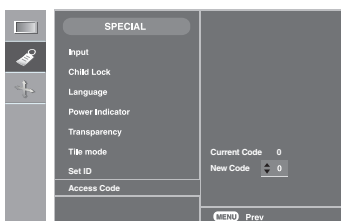


Set ID



You can assign a unique **Set ID** NO (name assignment) to each product when several products are connected for display. Specify the number (0~255) using the ▼▲ button and exit. Use the assigned Set ID to individually control each product using the Product Control Program.

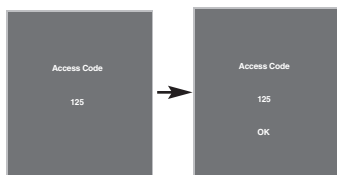
Access code



Code values can be assigned for all the products through the communication with RS-232 to set and reset LOCK.

[To set Access Code]

Use the number button and the ▼▲ button to input New Code (ex. 000~255, except for 251). Always input three digits. (ex. 001, 010, 100...). Save the code value by pressing the OK button.



[To set Lock]

Press the Lock button on the remote control and the select screen will show. Input the Access Code as shown previously and press the **OK** button and the **OK** message will show which indicates the Lock function. Press the Lock button on the remote control to undo the Lock function.



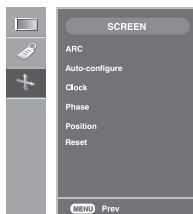
Note

- If you input the wrong Access Code and press the OK button a message saying "NG" will show.
-> If the NG message shows the Lock will be set so press the Lock button to undo the Lock and press the Lock button again to set it.
- If you set the Access Code after you have set the Lock function the remote control will not work.
-> Press Lock button to undo the Lock function.

Selecting and Adjusting the screen



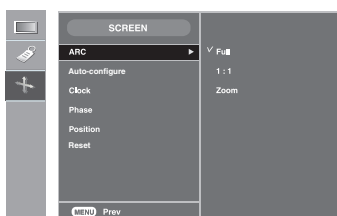
Adjusting Screen CLOCK/PHASE and Position



ARC

To select the image size of the screen.

(1:1 menu and the Zoom menu are not supported over 1360 X 768 resolution)



Auto config.

This button is for the automatic adjustment of the screen position, clock and phase. This function is suitable for analogue signal input only.

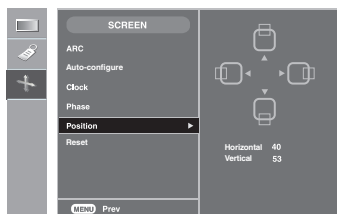
Clock

To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. This function is suitable for analogue signal input only.

Phase

To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters. This function is suitable for analogue signal input only.

Position



To adjust position of the screen.

This function is suitable for analogue signal input only.

Press the ► button to display the submenu for position.

◀ Left
▶ Right Moving the screen position horizontally.

▲ Up
▼ Down Moving the screen position vertically.

Reset

Use this function to reset the product to the factory default. However, language selection will not be initialized.

Troubleshooting

No image is displayed

- Is the product power cord connected?
 - See if the power cord is properly connected to the outlet.
 - See if the power switch is turned on.
 - Adjust brightness and contrast again.
- Is the power indicator light on?
- Power is on, power indicator is green but the screen appears extremely dark.
- Is the power indicator amber?
 - If the product is in power saving mode, move the mouse or press any key.
- Does the 'Out of range' message appear?
 - The signal from the PC (video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.
 - * **Maximum resolution**
RGB : 1600 X 1200 @60Hz
DVI : 1280 X 1024 @60Hz
- Does the 'Check signal cable' message appear?
 - The signal cable between PC and product is not connected. Check the signal cable.
 - Press the 'SOURCE' menu in the remote Control to check the input signal.
- Did you check the SOURCE Key?
 - Press the 'SOURCE' menu in the remote Control to check the input signal.

'Unknown Product' message appears when the product is connected.

- Did you install the driver?
 - See if the plug&play function is supported by referring to the video card user manual.



Note

* **Vertical frequency:** To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.

* **Horizontal frequency:** The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

Troubleshooting

The screen image looks abnormal.

- **Is the screen position wrong?**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu.
 - See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel – Display – Setting menu.
- **Do thin lines appear on the background screen?**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
- **Horizontal noise appears or the characters look blurred.**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
- **The screen is displayed abnormally.**
 - The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

Troubleshooting

'Controls locked' message appears.

- The 'Controls locked' message appears when pressing the Menu button.
- The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ► button for several seconds. (You cannot set this function using the remote control buttons. You can set this function in the product only.)

After-image appears on the product.

- After-image appears when the product is turned off.
- If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screensaver function.

Screen color is abnormal.

- Screen has poor color resolution (16 colors).
- Screen color is unstable or mono-colored.
- Do black spots appear on the screen?
- Set the number of colors to more than 24 bits (true color)
Select Control Panel – Display – Settings – Color Table menu in Windows.
- Check the connection status of the signal cable.
Or, re-insert the PC video card.
- Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.

Specifications

The product specifications can change without prior notice for product improvement.

LCD Panel	42 inches (106.73 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 106.73 cm 0.681 mm (Pixel Pitch)	
Power	Rated Voltage Power Consumption	AC 100-240V~ 50/60Hz 2.8A On Mode : 270 W (With PC) 240 W (Only MNT) Sleep Mode : ≤ 15W (Only MNT) Off Mode : ≤ 20W (With PC) ≤ 13W (Only MNT)
Video Signal	Max. Resolution	RGB : 1600 X1200 @60Hz DVI : 1280 X 1024 @60Hz – It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB : 1360 X 768 @60Hz DVI : 1360 X 768 @60Hz – It may not be supported supported depending on the OS or video card type.
	Horizontal Frequency	RGB : 30 - 83 kHz DVI : 30 - 72 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector	15-pin D-Sub type, RS-232C, mouse, keyboard, VGA, LAN, USB, SERIAL	
Dimensions &Weight	Width x Height x Depth	1057.0 mm (41.61 inches) x 653.0 mm (25.71 inches) x 119.1 mm (4.69 inches)
	Net	27.54 kg (60.71 lbs)
Environmental Conditions	Operational Condition	Temperature: 5°C ~ 35°C , Humidity: 10% ~ 80%
	Storage Condition	Temperature: -20°C ~ 60°C , Humidity: 5% ~ 95%

NOTE

- Information in this document is subject to change without notice.

Specifications

● PC Mode – Preset Mode

Preset mode		Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Preset mode		Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	11	VESA 1024 x 768	60.123	75
2	VGA 720 x 400	31.468	70	12	VESA 1024 x 768	68.68	85
3	VGA 640 x 480	31.469	60	13	VESA 1280 x 720	44.772	60
4	VESA 640 x 480	37.500	75	14	VESA 1360 x 768	47.72	60
5	VESA 640 x 480	43.269	85	15	VESA 1280 x 1024	63.981	60
6	VESA 800 x 600	37.879	60	16	VESA 1280 x 1024	79.98	75
7	VESA 800 x 600	46.875	75	17	VESA 1600 x 1200	75.00	60
8	VESA 800 x 600	53.674	85	RGB : Mode 1 ~ 17 DVI : Mode 1 ~ 15			
9	MAC 832 x 624	49.725	75				
10	VESA 1024 x 768	48.363	60				

● Power Indicator

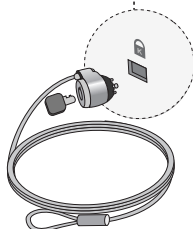
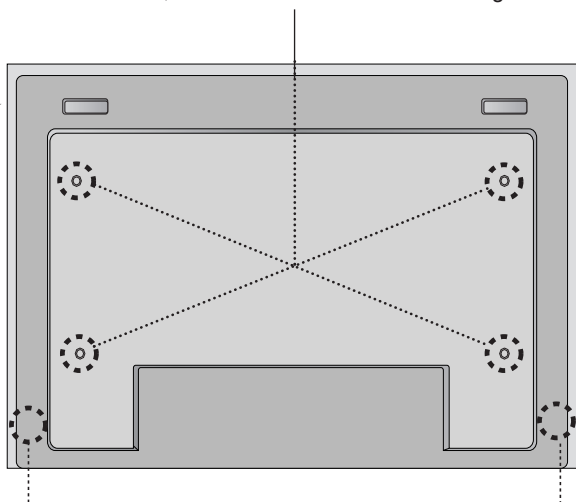
Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-

Specifications

VESA wall mounting

Connected to another object (stand type and wall-mounted type.) This product accepts a VESA-compliant mounting interface pad.- **(This has to be purchased separately if required.)**

For further information, refer to the VESA Wall Mounting Instruction Guide.



Kensington Security Slot- (This has to be purchased separately if required.)

Connected to a locking cable that can be purchased separately at most computer stores